

unit 3 generates a message notifying that the requested file can not be copied, and sends it to the PC (S25).

According to the above-explained operation, file renaming, file moving, or file copy is prohibited for files recorded in a rewritable disk, a user who requested file operation becomes aware that file operation requested for the files recorded in a rewritable disk has been prohibited through a corresponding message displayed onto monitor.

The digital stream file management method explained so far can basically prevent disk reproduction fail caused by file or directory change of files containing A/V digital data stream as well as copyright infringement caused by copying the digital stream files recorded in a rewritable disk.

Although the preferred embodiment of the present invention have been disclosed for illustrative purposes, those skilled in the art will appreciate that various modifications, additions and substitutions are possible, without departing from the scope and spirit of the invention as recited in the accompanying claims.

**What is claimed is:**

1. A file management method for files recorded in an optical disk, comprising the steps of:

(a) writing information on whether a digital stream file recorded in the optical disk is prohibited to be renamed or not;

and  
(b) determining whether to conduct a requested operation of file renaming based on the written information.

2. The method set forth in claim 1, wherein the information is written in the file attribute field of a file identifier descriptor in which detailed information on an associated file is written.

3. A file management method for files recorded in an optical disk, comprising the steps of:

(a) writing information on whether a digital stream file recorded in the optical disk is prohibited to be moved or not; and

(b) determining whether to conduct a requested operation of file moving based on the written information.

4. The method set forth in claim 3, wherein the information is written in the file attribute field of a file identifier descriptor in which detailed information on an associated file is written.

5. A file management method for files recorded in an optical disk, comprising the steps of:

(a) writing information on whether a digital stream file recorded in the optical disk is prohibited to be copied or not; and

(b) determining whether to conduct a requested operation of file copy based on the written information.

6. The method set forth in claim 5, wherein the information is written in the file attribute field of a file identifier descriptor in which detailed information on an associated file is written.

7. A file management method for files recorded in an optical disk, comprising the steps of:

(a) receiving a command for a file operation for a digital data stream file recorded in the optical disk;

(b) identifying the received command;

(c) checking whether the requested file operation for an associated file is prohibited or not based on pre-written attribute information for the associated file if the identified command indicates a file renaming, a file moving, or a file copy; and

(d) rejecting the file operation the command requested based on the checked result.

8. The method set forth in claim 7, wherein the command

for a file operation is received from a computer through a digital interface.

9. The method set forth in claim 7, wherein said step (d) providing an outer device transmitted the command with  
5 information identifying of the rejection of the requested file operation.

10. A writable disk recording medium, comprising data files containing digital data stream and file descriptors for the data files, wherein each file descriptor has a file  
10 attribute field comprising flags for restricting file renaming and file moving.

11. The writable disk recording medium set forth in claim 10, wherein the file attribute field further comprising other flag for restricting file copy.

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